

Application No.: 09/535,733Docket No.: 5000-031**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Cancelled)

2. (Cancelled)

3. (Previously Presented) The method of claim 4, wherein the less detailed desired cartographic entity is no cartographic entity.

4. (Currently Amended) A method of selectively displaying cartographic features on a video display of a navigation system, the method comprising the steps of:

a) determining an operational mode of the navigation system, wherein the navigation system includes first and second operational modes with the first operational mode comprising ~~an comprises~~ on-road mode in which a vehicle position is displayed relative to a road system and with the second operational mode comprising an ~~comprises~~ off-road mode in which the vehicle position is displayed irrelative to a road system;

b) selecting a desired cartographic entity for a cartographic feature based upon the operational mode including selecting a less detailed desired cartographic entity for the cartographic feature in the first operational mode and selecting a more detailed desired cartographic entity than the less detailed desired cartographic entity for the same cartographic

**Application No.: 09/535,733****Docket No.: 5000-031**

feature in the second operational mode; and

- c) displaying the selected desired cartographic entity on the video display.

5. (Original) The method of claim 4, wherein a first cartographic entity is displayed when the navigation system is in off-road mode and said first cartographic entity is not displayed when the navigation system is in on-road mode.

6. (Original) The method of claim 4, wherein the navigation system includes a third operational mode comprising on-road guidance mode, and step b) includes selecting a least detailed desired cartographic entity that is one of the same as the less detailed desired cartographic entity and a less detailed version of the less detailed desired cartographic entity than the less detailed desired cartographic entity for the on-road mode.

7. (Previously Presented) A method of selectively displaying cartographic features on a video display of a navigation system, the method comprising the steps of:

- a) determining an operational mode of the navigation system, wherein the navigation system includes first and second operational modes and the first operational mode is defined by a predetermined vehicle speed;

- b) selecting a desired cartographic entity for a cartographic feature based upon reaching the predetermined vehicle speed in the first operational mode including selecting a less detailed desired cartographic entity for the cartographic feature at the predetermined vehicle speed in the first operational mode and selecting a more detailed desired cartographic entity than the less detailed desired cartographic entity for the same cartographic feature in the second

Application No.: 09/535,733Docket No.: 5000-031

operational mode; and

- c) displaying the select desired cartographic entity on the video display.

8. (Previously Presented) A method of selectively displaying cartographic features on a video display of a navigation system, the method comprising the steps of:

- a) determining an operational mode of the navigation system, wherein the navigation system includes first and second operational modes and the first operational mode comprises a panning mode in which a displayed area on the video display is shifted relative to the displayed vehicle location independent of a change in vehicle location;

- b) selecting a desired cartographic entity for a cartographic feature based upon the operational mode including selecting a less detailed desired cartographic entity for the cartographic feature in the first operational mode and selecting a more detailed desired cartographic entity than the less detailed desired cartographic entity for the same cartographic feature in the second operational mode; and

- c) displaying the selected desired cartographic entity on the video display.

9. (Previously Presented) A method of selectively displaying cartographic features on a video display of a navigation system, the method comprising the steps of:

- a) determining an operational mode of the navigation system, wherein the navigation system includes first and second operational modes and the less detailed desired cartographic entity is defined by a perimeter with cross-hatching disposed within the perimeter and the more detailed desired cartographic entity is defined by the perimeter with solid shading disposed within the perimeter;

Application No.: 09/535,733Docket No.: 5000-031

b) selecting a desired cartographic entity for a cartographic feature based upon the operational mode including selecting a less detailed desired cartographic entity for the cartographic feature in the first operational mode and selecting a more detailed desired cartographic entity than the less detailed desired cartographic entity for the same cartographic feature in the second operational mode; and

c) displaying the selected desired cartographic entity on the video display.

10 (Cancelled).

11. (Previously Presented) A method of selectively displaying cartographic features on a video display of a navigation system, the method comprising the steps of:

a) determining an operational mode of the navigation system;

b) selecting a first cartographic entity for a first cartographic feature based upon the operational mode, wherein the first cartographic entity is a vehicle route having a first intensity, and selecting a second intensity for a second desired cartographic entity for a second cartographic feature which is different than the first intensity; and

c) simultaneously displaying the first and second desired cartographic entities on the video display.

12. (Original) The method of claim 11, wherein the operation mode comprises on-road guidance mode.

13. (Original) The method of claim 11, wherein the first and second intensities are

Application No.: 09/535,733Docket No.: 5000-031

selected from a color palette having a plurality of colors.

14. (Original) The method of claim 13, wherein each of the plurality of colors are defined by blue, green, and red values with the first intensity having first blue, green, and red values and the second intensity having second blue, green, and red values that are a percentage of the first blue, green, and red values, respectively.

15. (Original) The method of claim 14, wherein the first intensity is approximately twenty-five percent less than the second intensity wherein the first blue, green, and red values are approximately twenty-five percent less than the second blue, green, and red values, respectively.

Claim 16 (cancelled).

17. (Previously Presented) An apparatus for a navigation system for selectively displaying cartographic features, the apparatus comprising:

at least one position determining device for providing a vehicle location signal;

a database having a map with cartographic features and cartographic entities for representing said cartographic features;

a processor interconnected to said at least one positioning device and said database for determining the location of the vehicle relative to said map;

a video display connected to said processor for displaying an area of said map;

a plurality of operational modes each displaying said map area, wherein said processor determines an operational mode from said plurality of said operational modes and selects a

Application No.: 09/535,733Docket No.: 5000-031

desired cartographic entity for a cartographic feature based upon said operational mode, said processor displaying said selected desired cartographic entity on said video display, wherein said plurality of operational modes includes first and second operational modes, and said processor selects a less detailed desired cartographic entity for said cartographic feature in said first operational mode and selects a more detailed desired cartographic entity than said less detailed desired cartographic entity for said same cartographic feature in said second operational mode, and wherein said first operational mode comprises on-road mode in which a vehicle position is displayed relative to a road system and said second operational mode comprises off-road mode in which said vehicle position is displayed irrelative to a road system.

18. (Original) The apparatus of claim 17, wherein said less detailed desired cartographic entity is no cartographic entity.

Claims 19-21 (Cancelled).

22. (Original) The apparatus of claim 17, wherein said first operational mode is defined by a predetermined vehicle speed.

23. (Original) The apparatus of claim 17, wherein said first operational mode comprises a panning mode.

24. (Original) The apparatus of claim 17, wherein said less detailed desired cartographic entity is defined by a perimeter with cross-hatching disposed within said perimeter and said more

**Application No.: 09/535,733****Docket No.: 5000-031**

detailed cartographic entity is defined by said perimeter with solid shading disposed within said perimeter.

25. (Currently Amended) A method of displaying a cartographic ~~feature~~ features on a video display of a navigation system, the method comprising the steps of:

- a) determining an operational mode of the navigation system;
- b) selecting a first desired intensity for a first desired cartographic entity defining a focal cartographic entity based upon the operational mode and selecting a second desired intensity for a second desired cartographic entity based upon the operational mode; and
- c) simultaneously displaying the first and second desired cartographic entity on the video display at the desired intensities.

26. (Previously Presented) The method of claim 25, wherein the focal cartographic entity is a vehicle route having a vehicle route intensity and step b) includes selecting the desired intensity for the desired cartographic entity which is different than the vehicle route intensity.

27. (Original) The method of claim 26, wherein the operational mode comprises on-road guidance mode.

28. (Original) The method of claim 26, wherein the vehicle route intensity and desired intensity are selected from a color palette having a plurality of colors.

29. (Original) The method of claim 28, wherein each of the plurality of colors are

**Application No.: 09/535,733****Docket No.: 5000-031**

defined by blue, green, and red values with the vehicle route intensity having first blue, green, and red values and the second desired intensity having second blue, green, and red values that are a percentage of the first blue, green, and red values, respectively.

30. (Original) The method of claim 29, wherein the desired intensity is approximately twenty-five percent less than the vehicle route intensity wherein the first, blue, green and red values are approximately twenty-five percent less than the second blue, green, and red values, respectively.

31. (Previously Presented) The apparatus of claim 17, wherein said first operational mode comprises on-road mode and said second operational mode comprises off-road mode.

32. (Previously Presented) The apparatus of claim 17, wherein a first cartographic entity is displayed when said apparatus is in said off-road mode and said first cartographic entity is not displayed when said apparatus is in said on-road mode.

33. (Currently Amended) The apparatus of claim 17, wherein said apparatus includes a third operational mode comprising on-road guidance mode relating to navigation guidance of the vehicle while traversing a road, and said processor selects a least detailed desired cartographic entity that is one of the same as said less detailed desired cartographic entity and a less detailed version of said less detailed desired cartographic entity.